

Models: Super 4-door, Sport 2-door, Saloons

ENGINE		Supermirafiori	Sport
1. Type (131B1/131B2)	...	4-stroke; twin O.H.C.; light alloy head	
2. Cooling system	...	Water pump, radiator, electric fan (in 90°/94°, out 85°/89°C.), thermostat (78°/82°C)	
3. Number of cylinders	...	4 (direct in block)	
4. Firing order	...	1-3-4-2 (No. 1 front)	
4a. Idling speed	...	900 r.p.m.	900 r.p.m.
5. Bore	...	84mm.	84mm.
6. Stroke	...	71.5mm.	90mm.
7. Cubic capacity	...	1585cm. ³	1995cm. ³
8. Compression ratio	...	9:1	8.9:1
9. Brake horse-power (DIN)	...	96 at 6000 r.p.m.	115 at 5800 r.p.m.
10. Torque (DIN) kg.m. (lb.ft.)	...	13.0 (94) at 3800	17.0 (123) at 3600
10a. Piston diameter (standard)	...	83-920/83-970mm. (in 3 grades)	
11. Piston oversizes	...	0.2, 0.4, 0.6mm.	[crown]
12. Piston clearance in bore	...	0.070/0.090mm., 52.4±0.254mm. from	
13. Piston rings—number	...	1 compression, 2 oil	
14. Piston rings—width	...	(1) 1.478/1.490mm.; (2) 1.980/2.000mm.; (3) 3.925/3.937mm.	
15. Piston rings—groove clearance	...	(1) 0.045/0.077mm.; (2) 0.030/0.070mm.; (3) 0.030/0.062mm.	
16. Piston rings—gap (in bore)	...	(1) (2) 0.30/0.45mm.; (3) 0.25/0.40	
17. Oil pressure (normal)	...	3.5/5kg./cm. ²	
18. Gudgeon pin diameter	...	21-991/21-997mm. in 2 grades	
19. Gudgeon pin fit in piston	...	0.002/0.008mm. clearance	
20. Gudgeon pin fit in con. rod	...	0.010/0.016mm. clearance	
21. Crankpin diameter (A)	...	48-234/48-244mm. 50-792/50-802mm.	
	...	(B) 48-224/48-234mm. 50-782/50-792mm.	
22. Crankpin undersizes	...	-0.10, -0.20, -0.30, -0.40in.	
25. Big-end bearing clearance	...	0.030/0.074mm. 0.021/0.065mm.	
27. Main journal diameter	...	52-985/53-005mm.	
28. Main journal undersizes	...	-0.10, -0.20, -0.30, -0.40in.	
29. Main bearings	...	5	
31. Main bearing clearance	...	0.032/0.077mm.	
32. Crankshaft end-float	...	0.055/0.305mm. (-0.002/-0.12in.)	
33. Crankshaft end-thrust on	...	Rear main bearing	
34. Camshaft journal diameter	...	(1) 29-944/29-960mm.; (2) 45-755/45-771mm.; (3) 46-155/46-171mm.	
34a. Aux. shaft journal diam.	...	(1) 48-013/48-038mm.; (2) 38-929/38-954mm.	
36. Camshaft bearing clearance	...	(1) 0.049/0.090mm.; (2) (3) 0.029/0.070mm.	
36a. Aux. shaft bearing clearance	...	0.046/0.091mm., both bearings	
38. Camshaft drive type	...	Toothed belt	
38a. Cam lift	...	9-714mm.	9-900mm.
39. Valve head diameter—In.	...	42-20/42-60mm.	41-60/42-00mm.
	...	—Ex. 35-85/36-45mm.	35-85/36-45mm.
40. Valve stem diameter	...	7-974/7-992mm.	
41. Valve seat angle	...	45°±5' (face angle, 45°30'±5')	
44. Valve stem/guide clearance	...	0.030/0.066mm. (-0.001/-0.0026in.)	
46. Valve spring rate —Inner	...	31mm. at 14.9kg. (32-8lb.); limit, 13.5kg.	
	...	—Outer 36mm. at 38.9kg. (85-8lb.); limit, 36kg.	
47. Valve clearance (cold)	...	I, 0-45mm. (-0.18in.); E, 0-50 (-0.20)	
48. Valve timing clearance	...	0-8mm. (-0.31in.)	
49. Valve timing —Inlet	...	12°BT—53°AB	15°BT—55°AB
	...	—Exhaust 54°BB—11°AT	57°BB—13°AT
50. Petrol pump	...	Mechanical; 0.18kg./cm. ² (2.6lb./in. ²)	
51. Carburettor	...	Weber* Solex†	34ADF15
52. Venturi—mm.	...	22 24 22 24	24 26
53. Main jet	...	115 115 122 132	120 140
54. Compensating jet	...	165 170 180 190	140 180
55. Slow-running jet	...	50 80 55 55	47 90
56. Slow-running air bleed	...	130 70	100 70
57. Emulsion tube	...	F20 F5	
58. Accelerator pump jet	...	40 55	40
62. Needle valve	...	1-75mm. 1-6mm. 1-75mm.	
63. Float level—mm.	...	6±0.25 9-5±0.5 6±0.25	
	...	*32ADF14 †C32EIE2	
TRANSMISSION			
101. Type	...	Rear-wheel drive	
102. Clutch	...	215mm.; pedal free-travel, 25mm.; diaphragm spring travel, 8.5mm.	
103. Gearbox (manual)	...	5 forward speeds, all synchromesh	
104. Gearbox (automatic)	...	Optional, 3-speed (not for Sport)	
105. Gearbox ratios (manual)	...	0-870; 1; 1-357; 2-045; 3-612; R.,	
105a. Gearbox ratios (automatic)	...	1; 1-48; 2-4; R., 1-92:1	3-244:1
105b. Stall speed (automatic)	...	In 'D', 2000/2200 r.p.m.; in 'R', 1950/2100	
105c. Change speeds (miles/hour)	...	1-2 2-3 3-2 3-1	
	...	—Kick-down 42/43 65/68 60/61 30/32	
107. Drive shafts	...	Semi-floating	[Sport]
108. Final drive gear	...	Hypoid (limited-slip diff. optional for	
109. Final drive ratio	...	3-9:1 (39/10); auto., 3-583:1 (43/12)	
111. Crown wheel/pinion backlash	...	0-10/0-15mm. (-0.004/-0.006in.)	
112. Pinion bearing pre-load	...	14/16kg.cm. (12-4/14-2lb.in.)	
113. Differential bearing pre-load	...	0-035/0-055mm. cap spread	

BRAKES (Dual circuit)

201. Front (Discs)	...	227mm. × 9-95/10-15. Min.: regrind 9-35; wear, 9-0mm.
202. Rear (Drums)	...	228-3/228-6mm. Max.: regrind, +0-8 wear, 230mm.
203. Handbrake	...	Mechanical, on rear drums
204. Linings—front	...	Min. pad thickness, 1-5mm.
205. Linings—rear	...	168 × 39-5/40-5 × 5-2/5-5 (minimum wear, 230mm.)
206. Power assistance	...	Master-Vac (4-6mm.)

STEERING (see also "Dimensions")

	Laden	Unladen
301. Type	...	Rack and pinion
302. Camber angle	...	0° to 1°
303. Castor angle	...	4° to 5°
304. King-pin inclination	...	6°
305. Wheel alignment (front)	...	1/5mm. toe-in
306. Condition for checking	...	Laden, 4 persons
307. Hub bearing end-float	...	0-025/0-100mm. (-0.001/-0.004in.)

FRONT SUSPENSION

401. Type	...	Coil springs/struts; anti-roll bar
	...	—Part No. 4348091
406. Spring l'gth—loaded (mm.)	...	270 at 280±12kg. 270 at 285±12kg.

REAR SUSPENSION

501. Type	...	Live axle; coil springs/struts; 4 trailing arms, transverse rod
	...	—Part No. 4401240
514. Spring length—loaded	...	307mm. approx. at 265kg.

ELECTRICAL SYSTEM

601. Ignition timing (static)	...	10° BTDC (pulley)
602. Sparking plugs	...	Champion N7Y; Marelli CW78LP
603. Sparking plug gap	...	0-6/0-7mm. (-0.024/-0.027in.)
604. Distributor	...	C.B. type
605. Contact breaker/pole gap	...	0-37/0-43mm. 0-30/0-40mm. (Marelli)
	...	(-0.015/-0.017in.)
605a. Dwell angle	...	55°±3°
607. Centrif. advance—max.	...	28°±2° (crank.)
610. Ignition coil	...	Marelli BES200A or Martinetti G37SU
611. Battery	...	12V. 45A.h. (20-hr.)
612. Battery earth	...	Negative
613. Alternator	...	Marelli AA125-14V-45A
	...	Bosch K1-14V-45A24
614. Regulator...	...	Electronic; integral with alternator
615. Starter motor	...	Fiat E100—1-3/12; Bosch GF12V-1-IPS

CAPACITIES

701. Engine sump—Total (dry)	...	4-83 litres (8-5p.); Sport, 4-8 (8-4)
	...	—Refill (incl. filter) 4-125 litres (7-3p.); Sport, 4-02 (7-1)
702. Gearbox	...	—Manual 1-8 litres (3-2 pints)
	...	—Auto. 2-8 litres (4-9 pints); refill, total, 5-6 (9-8)
703. Differential	...	1-0 litre (1-8 pints)
704. Cooling system (incl. h't'r)	...	8 litres (1-4 pints); Sport, 8-2 (1-4)
705. Fuel tank	...	50 litres (11 gallons) incl. 5/7 litres reserve
706. Tyre size	...	185/60HR14
707. Tyre pressures	...	—Front 2-0 (28)
	...	—Rear 2-1 (30)
708. No. of grease gun points	...	None
709. Servicing intervals	...	6000 miles
710. Hydraulic fluid type	...	Fiat Blue Label (DOT 3)

DIMENSIONS

	Super	Sport
801. Length overall	...	4231mm. (13ft. 10-6in.)
802. Width overall	...	1648mm. (54-9in.)
803. Height overall (unladen)	...	1381mm. (45-4in.)
804. Weight (kerb)	...	1050kg. (20-7cwt.)
806. Track	...	—Front 1376mm. (54-2in.)
	...	—Rear 1319mm. (51-9in.)
807. Wheelbase	...	2490mm. (81-9in.)
808. Turning circle diameter	...	10-6m. (34ft. 9in.)

TORQUE SPANNER DATA kg.m.

	kg.m.	lb.ft.
901. Cylinder head nuts	...	8-5
902. Big-end bearing nuts	...	5
903. Main b'ring screws—Front	...	8
	...	—Self-locking 11-5
906. Clutch to flywheel bolts	...	3
907. Drive pinion bearing nut	...	12/23
908. Crown wheel bolts	...	10
909. Differential bearing bolts	...	9-5
911. Steering wheel nut	...	5

BODY AND CHASSIS

1001. Type of construction	...	Integral
1002. Material of body panels	...	Steel